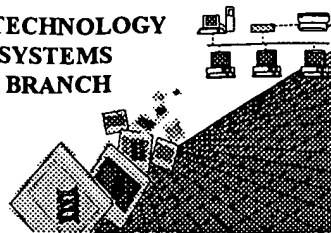


0310
719

BIOTECHNOLOGY
SYSTEMS
BRANCH



1645

RAW SEQUENCE LISTING
ERROR REPORT

RECEIVED

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TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/781,891C

Source:

1602

Date Processed by STIC:

7/12/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/781,891C

DATE: 07/12/2002
TIME: 10:39:31

Input Set : A:\13381.seq.txt
Output Set: N:\CRF3\07122002\I781891C.raw

PP. 2,6

**Does Not Comply
Corrected Diskette Needed**

```

3 <110> APPLICANT: Delaney, William IV
4      Locarnini, Stephen Alister
5      Chen, Robert Yung Ming
6      Bartholomeusz, Angeline
7      Isom, Harriet
9 <120> TITLE OF INVENTION: An assay
11 <130> FILE REFERENCE: 2378750/EJH
13 <140> CURRENT APPLICATION NUMBER: 09/781,891C
14 <141> CURRENT FILING DATE: 2001-02-02
16 <150> PRIOR APPLICATION NUMBER: 60/179,948
17 <151> PRIOR FILING DATE: 2000-02-03
19 <160> NUMBER OF SEQ ID NOS: 22
21 <170> SOFTWARE: PatentIn version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 23
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
31 <400> SEQUENCE: 1
32 gcctcatttt gtgggtcacc ata                                23
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 20
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
42 <400> SEQUENCE: 2
43 tctctgacat actttccaat                                    20
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 18
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
53 <400> SEQUENCE: 3;
54 tgcacgattc ctgctcaa                                    18
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 20
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer

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RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

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67 <210> SEQ ID NO: 5
68 <211> LENGTH: 181
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence:Reference HBV
74 (Formula I)
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77 <221> NAME/KEY: variant
78 <222> LOCATION: (2)..(2)
79 <223> OTHER INFORMATION: X = N or D
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83 <222> LOCATION: (17)..(17)
84 <223> OTHER INFORMATION: X = I or P
86 <220> FEATURE:
87 <221> NAME/KEY: variant
88 <222> LOCATION: (29)..(29)
89 <223> OTHER INFORMATION: X = I or V
91 <220> FEATURE:
92 <221> NAME/KEY: variant
93 <222> LOCATION: (35)..(35)
94 <223> OTHER INFORMATION: X = S or D
96 <220> FEATURE:
97 <221> NAME/KEY: variant
98 <222> LOCATION: (44)..(44)
99 <223> OTHER INFORMATION: X = T or N
101 <220> FEATURE:
102 <221> NAME/KEY: variant
103 <222> LOCATION: (46)..(46)
104 <223> OTHER INFORMATION: X = R or N
106 <220> FEATURE:
107 <221> NAME/KEY: variant
108 <222> LOCATION: (47)..(47)
109 <223> OTHER INFORMATION: X = N or I
111 <220> FEATURE:
112 <221> NAME/KEY: variant
113 <222> LOCATION: (48)..(48)
114 <223> OTHER INFORMATION: X = any amino acid
116 <220> FEATURE:
117 <221> NAME/KEY: variant
118 <222> LOCATION: (49)..(49)
119 <223> OTHER INFORMATION: X = N
121 <220> FEATURE:
122 <221> NAME/KEY: variant
123 <222> LOCATION: (50)..(50)
124 <223> OTHER INFORMATION: X = N or Y or H

Glx, not Xaa, is at location 17

"Glx" can only represent Glutamine or Glutamic Acid

Glx is at location 50 (same error as above)

RAW SEQUENCE LISTING

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Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

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128 <222> LOCATION: (52)..(52) /
129 <223> OTHER INFORMATION: X = H or Y
131 <220> FEATURE:
132 <221> NAME/KEY: variant
133 <222> LOCATION: (53)..(53) /
134 <223> OTHER INFORMATION: X = G or R
136 <220> FEATURE:
137 <221> NAME/KEY: variant
138 <222> LOCATION: (54)..(56) /
139 <223> OTHER INFORMATION: X = any amino acid
141 <220> FEATURE:
142 <221> NAME/KEY: variant
143 <222> LOCATION: (57)..(57) /
144 <223> OTHER INFORMATION: X = D or N
146 <220> FEATURE:
147 <221> NAME/KEY: variant
148 <222> LOCATION: (60)..(60) /
149 <223> OTHER INFORMATION: X = D or N
151 <220> FEATURE:
152 <221> NAME/KEY: variant
153 <222> LOCATION: (61)..(61) /
154 <223> OTHER INFORMATION: X = S or Y
156 <220> FEATURE:
157 <221> NAME/KEY: variant
158 <222> LOCATION: (65)..(65) /
159 <223> OTHER INFORMATION: X = N or Q
161 <220> FEATURE:
162 <221> NAME/KEY: variant
163 <222> LOCATION: (71)..(71)
164 <223> OTHER INFORMATION: X = L or M
166 <220> FEATURE:
167 <221> NAME/KEY: variant
168 <222> LOCATION: (75)..(75) /
169 <223> OTHER INFORMATION: X = K or Q
171 <220> FEATURE:
172 <221> NAME/KEY: variant
173 <222> LOCATION: (77)..(77) /
174 <223> OTHER INFORMATION: X = Y or F
176 <220> FEATURE:
177 <221> NAME/KEY: variant
178 <222> LOCATION: (79)..(79) /
179 <223> OTHER INFORMATION: X = R or W
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182 <221> NAME/KEY: variant
183 <222> LOCATION: (84)..(84) /
184 <223> OTHER INFORMATION: X = Y or L
186 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

187 <221> NAME/KEY: variant
188 <222> LOCATION: (85)..(85) ✓
189 <223> OTHER INFORMATION: X = S or A
191 <220> FEATURE:
192 <221> NAME/KEY: variant
193 <222> LOCATION: (89)..(89) ✓
194 <223> OTHER INFORMATION: X = I or V
196 <220> FEATURE:
197 <221> NAME/KEY: variant
198 <222> LOCATION: (95)..(95) ✓
199 <223> OTHER INFORMATION: X = I or L
201 <220> FEATURE:
202 <221> NAME/KEY: variant
203 <222> LOCATION: (99)..(99) ✓
204 <223> OTHER INFORMATION: X = V or G
206 <220> FEATURE:
207 <221> NAME/KEY: variant
208 <222> LOCATION: (114)..(114) ✓
209 <223> OTHER INFORMATION: X = C or L
211 <220> FEATURE:
212 <221> NAME/KEY: variant
213 <222> LOCATION: (115)..(115) ✓
214 <223> OTHER INFORMATION: X = A or S
216 <220> FEATURE:
217 <221> NAME/KEY: variant ✓
218 <222> LOCATION: (116)..(116)
219 <223> OTHER INFORMATION: X = V or M
221 <220> FEATURE:
222 <221> NAME/KEY: variant ✓
223 <222> LOCATION: (117)..(117)
224 <223> OTHER INFORMATION: X = V or T
226 <220> FEATURE:
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228 <222> LOCATION: (118)..(118) ✓
229 <223> OTHER INFORMATION: X = R or C
231 <220> FEATURE:
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233 <222> LOCATION: (122)..(122)
234 <223> OTHER INFORMATION: X = F or P
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238 <222> LOCATION: (125)..(125) ✓
239 <223> OTHER INFORMATION: X = L or V
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242 <221> NAME/KEY: variant
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244 <223> OTHER INFORMATION: X = A or V
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247 <221> NAME/KEY: variant

RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

248 <222> LOCATION: (128)..(128) ✓
249 <223> OTHER INFORMATION: X = S or A
251 <220> FEATURE:
252 <221> NAME/KEY: variant ?
253 <222> LOCATION: (130)..(130)
254 <223> OTHER INFORMATION: M = amino acid 550
256 <220> FEATURE:
257 <221> NAME/KEY: variant
258 <222> LOCATION: (133)..(133) ✓
259 <223> OTHER INFORMATION: X = V or L or M
261 <220> FEATURE:
262 <221> NAME/KEY: variant
263 <222> LOCATION: (138)..(138) ✓
264 <223> OTHER INFORMATION: X = K or R
266 <220> FEATURE:
267 <221> NAME/KEY: variant
268 <222> LOCATION: (139)..(139) ✓
269 <223> OTHER INFORMATION: X = S or T
271 <220> FEATURE:
272 <221> NAME/KEY: variant ✓
273 <222> LOCATION: (140)..(140)
274 <223> OTHER INFORMATION: X = V or G
276 <220> FEATURE:
277 <221> NAME/KEY: variant
278 <222> LOCATION: (141)..(141) ✓
279 <223> OTHER INFORMATION: X = Q or E
281 <220> FEATURE:
282 <221> NAME/KEY: variant
283 <222> LOCATION: (143)..(143) ✓
284 <223> OTHER INFORMATION: X = L or S or R
286 <220> FEATURE:
287 <221> NAME/KEY: variant ✓
288 <222> LOCATION: (145)..(145)
289 <223> OTHER INFORMATION: X = S or F
291 <220> FEATURE:
292 <221> NAME/KEY: variant ✓
293 <222> LOCATION: (147)..(147)
294 <223> OTHER INFORMATION: X = F or Y
296 <220> FEATURE:
297 <221> NAME/KEY: variant ✓
298 <222> LOCATION: (148)..(148)
299 <223> OTHER INFORMATION: X = T or A
301 <220> FEATURE:
302 <221> NAME/KEY: variant
303 <222> LOCATION: (149)..(149) ✓
304 <223> OTHER INFORMATION: X = A or S
306 <220> FEATURE:
307 <221> NAME/KEY: variant
308 <222> LOCATION: (150)..(150)

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/781,891C

DATE: 07/12/2002
TIME: 10:39:32

Input Set : A:\13381.seq.txt
Output Set: N:\CRF3\07122002\I781891C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 2,29,35,44,46,47,48,49,52,53,54,55,56,57,60,61,65,71,75,77
Seq#:5; Xaa Pos. 79,84,85,89,95,99,114,115,116,117,118,122,125,126,128,133
Seq#:5; Xaa Pos. 138,139,140,141,143,145,147,148,149,150,151,152,153,156
Seq#:5; Xaa Pos. 157,162,164,174,179
Seq#:6; Xaa Pos. 2,3,4,5,8,10,13,18,19,21,24,26,27,30,33,40,44,45,46,47,49
Seq#:6; Xaa Pos. 51,52,53,56,57,59,61,63,64,68,70,78,85,100,105,110,112,113
Seq#:6; Xaa Pos. 114,118,119,120,122,125,126,127,128,131,133,134,136,137
Seq#:6; Xaa Pos. 140,143,144,146,155,158,159,160,161,165,166,168,170,174
Seq#:6; Xaa Pos. 177,178,182,183,184,185,187,189,192,193,194,197,198,200
Seq#:6; Xaa Pos. 202,204,205,206,207,209,210,213,220,221,223,224,225
Seq#:7; Xaa Pos. 3,10,11,15,21,27,45,48,59,62,65,76,86,96,134,153,164,182
Seq#:7; Xaa Pos. 203,208,220,222,225,228,243,249,254
Seq#:8; Xaa Pos. 2,49,52,53,55,56,65,69,75,195,209,211,222